

THE PORT AUTHORITY
OF NY & NJ

CONFORMED DRAWING
08/18/88
SIGNED AND SEALED
COPY IS KEPT ON FILE

ORIGINAL SIGNED & SEALED BY
NY P.E. (OR R.A.)

Joseph R. Loring
& Associates, Inc.
consulting engineers

One Pennsylvania Plaza
New York, New York 10119-0043
Tel. (212) 363-7400, Fax (212) 363-7382

THE OFFICE OF
DAVID
ELIOT
LEIBOWITZ
P.C.

LESLIE E. ROBERTSON
ASSOCIATES, R.L.L.P.
CONSULTING ELECTRICAL ENGINEERS
200 EAST 47TH STREET
NEW YORK, NY 10017-0001
TEL. (212) 685-1000 FAX (212) 685-1001

No. Date Revision Approved
Engineering Department
Design Divisions

The
World
Trade
Center

STANDBY POWER
5 WORLD TRADE CENTER

ELECTRICAL

MASTER
ONE-LINE DIAGRAM

This drawing is subject to conditions in contract
All inventions, data, designs and methods
herein are reserved to Port Authority and
may not be used without its written consent

11/11/87
Contract Number
WTC-946.071
Drawing Number
E1-01

1 WTC

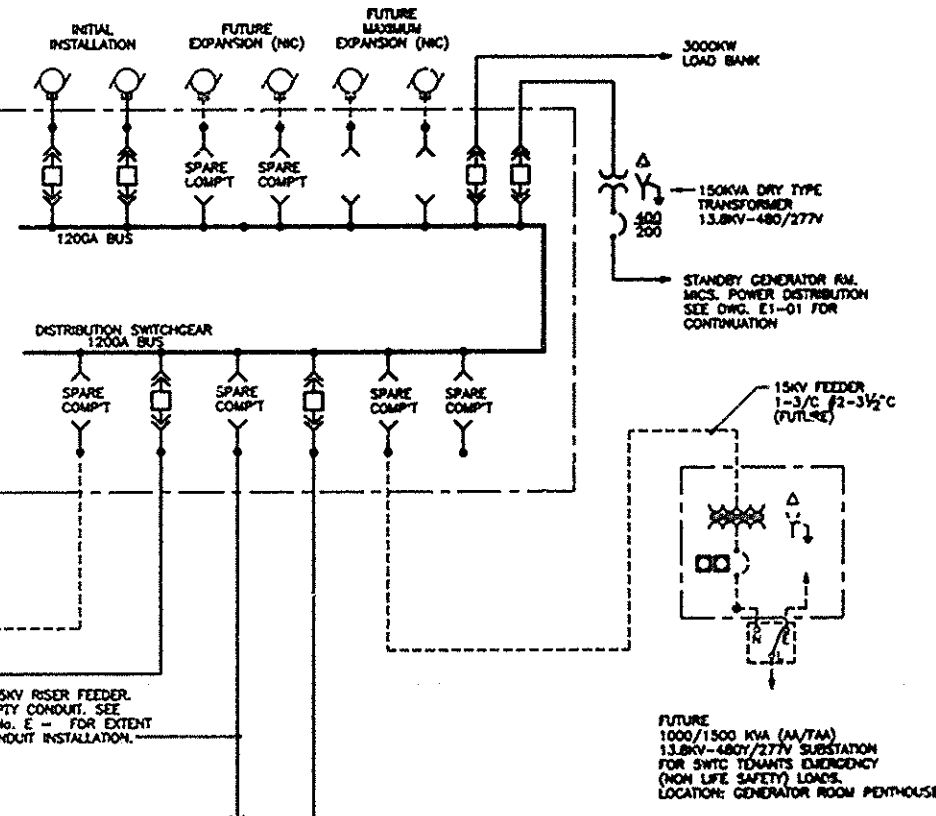
2 WTC

NOTES:

1. FOR SYMBOL LIST SEE DWG. T1-04.
2. FOR RISER DIAGRAM SEE DRAWING E1-02.
3. FOR GENERATOR ROOM PLAN AND DETAILS SEE DWG. NO. E2-04.
4. EXISTING 2500/3750KVA, 480V-12.8KV STEP-UP SUBSTATION TO REMAIN CONNECTED TO EXISTING EMERGENCY 2500A CIRCUIT BREAKER IN EXISTING EMERGENCY SWITCHGEAR. BREAKER TO BE PADLOCKED IN OPEN POSITION AND SUBSTATION TO REMAIN IN PLACE FOR FUTURE USE.
5. DISCONNECT 13.8KV FEEDER RISER CABLES FROM SUBSTATION. REMOVE SECTION OF CONDUIT AND TERMINATE CONDUIT IN PULLBOX AT CEILING OVER SUBSTATION.
6. TERMINATE 5' CONDUIT FROM STANDBY GENERATOR AT EXISTING PULL-BOX ABOVE STEP UP SUBSTATION. SPlice EXISTING 3-1/2" Ø 2 CABLES WITH INCOMING 8-1/2" Ø 4/0 CABLES AND 1 #1 GROUND IN PULLBOX.
7. COMPENSATION FOR FURNISHING AND INSTALLATION OF CABLE SHALL BE AT THE NET COST THERE OF FOR COMPUTATION OF NET COST SEE DRAWING NO. E6-01.
8. FOR GENERATOR SYSTEM ONE LINE DIAGRAM SEE DRAWING E1-03.
9. 15KV 3/4" WIRE ARMORED AND 1/2" NON-ARMORED PARALLEL-LAY ASSEMBLED CABLE ARE AUTHORITY FURNISHED EQUIPMENT TO BE INSTALLED IN RACEWAY AS PART OF THIS WORK.

GENERATOR STANDBY POWER PLANT AT 5 WTC ROOF
SYNCHRONIZING CONTROL & DISTRIBUTION SWITCHGEAR
(AUTHORITY FURNISHED EQUIPMENT)

EACH 2000KW, 13.8KV, 1800RPM ENGINE GENERATOR SETS. PROVISIONS FOR 2 FUTURE SETS AND SPACE FOR ULTIMATE EXPANSION TO SIX (6) SETS



EXIST. EMERGENCY GENERATOR PLANT SWITCHGEAR
LOCATION: B6 LEVEL

